

110.3 - USA/Canada Collaborative Materials (powder form)

These materials, developed by Agriculture Canada in collaboration with NIST, are intended for use in evaluating analytical methods and instruments used for the determination of major, minor, and trace constituent elements, as well as proximates selected fatty acids (where appropriate), calories and vitamins in food/agricultural commodities.

NOTE: These materials are no longer available from NIST. We are working with another institute to provide these materials in the near future. Details will be posted here when they are available.

Technical Contact: rolf.zeisler@nist.gov

PLEASE NOTE: The tables are presented to facilitate comparisons among a family of materials to help customers select the best SRM for their needs. For specific values and uncertainties, the certificate is the only official source.

SRM	Description	Unit of Issue	Calcium	Chlorine	Copper	Fluorine	Iron	Magnesium	Manganese	Nitrogen	Potassium	Selenium	Sodium	Strontium	Zinc
8412	Corn Stalk (Zea mays)	34 g	0.216*	0.244*	8	(0.65)	139	0.160*	15	(6970)	1.735*	(0.016)	(28)	12	32
8413	Corn Kernel (Zea mays)	47 g	42	(450)	3.0	(0.24)	(23)	0.0990*	4.0	(13750)	0.357*	(0.004)			15.7
8414	Bovine Muscle Powder (Beef)	50 g (2)	145	0.188*	2.84	(0.22)	71.2	960	0.37	13.75*	1.517*	0.076	0.210*	0.052	142
8415	Whole Egg Powder	35 g	0.248*	0.508*	2.70		112	305	1.78	6.30*	0.319*	1.39	0.377*	5.63	67.5
8418	Wheat Gluten	50 g	369	0.362*	5.94	(0.43)	54.3	510	14.3	14.64*	472	2.58	0.142*	1.71	53.8
8432	Corn Starch	50 g	56	45	0.06	(0.02)	(5)	31	0.10	680	45	(0.0009)	119	(0.18)	0.22
8433	Corn Bran	50 g	420	31	2.47		14.8	818	2.55	0.882*	566	0.045	430	4.62	18.6
8436	Durum Wheat Flour	50 g	278	680	4.30	(0.1)	41.5	0.107*	16.0	2.709*	0.318*	1.23	16.0	1.19	22.2
8437	Hard Red Spring Wheat Flour	50 g	143	500	(2.01)	(0.02)	31	365	4.50	2.690*	0.115*	0.56	(7)	(4)	10.6
8438	Soft Winter Wheat Flour	50 g	240	640	(1.2)	(0.04)	(29)	214	5.4	1.756*	0.148	0.076	(7)		(5.8)

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Aluminum Antimony

(4)	
1.7	(0.01)
540	(0.002)
10.8	(0.01)
1.9	
1.01	(0.004)
11.7	
(2.1)	
(2.3)	

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SRM	Description	Unit of Issue	Arsenic	Barium	Boron	Bromine	Cadmium	Cesium	Chromium	Cobalt	Iodine	Lead	Mercury	Molybdenum	Nickel	Phosphorus
8412	Corn Stalk (Zea mays)	34 g														
8413	Corn Kernel (Zea mays)	47 g														
8414	Bovine Muscle Powder (Beef)	50 g (2)	0.009	(0.05)	0.6	1.1	0.013	(0.05)	0.071	0.007	0.035	0.38	0.005	0.08	0.05	0.836*
8415	Whole Egg Powder	35 g	(0.01)	(3)	0.41		(0.005)		0.37	0.012	1.97	0.061	0.004	0.247		1.001*
8418	Wheat Gluten	50 g	(0.02)	1.53	(0.4)	(3.6)	0.064		0.053	0.010	0.060	0.10	0.0019	0.76	0.13	0.219 *
8432	Corn Starch	50 g					0.0003		(0.02)	0.0012		(0.007)	0.0011	0.02	0.02	178
8433	Corn Bran	50 g	(0.002)	2.40	2.8	2.3	0.012		(0.11)	(0.006)	0.026	0.140	0.003	0.252	0.158	171
8436	Durum Wheat Flour	50 g	(0.03)	2.11		6.6	0.11		0.023	0.008	0.006	0.023	0.0004	0.70	0.17	0.290*
8437	Hard Red Spring Wheat Flour	50 g		(0.4)	(0.2)		(0.02)		(0.026)				(0.004)	(0.55)	(0.2)	0.137*
8438	Soft Winter Wheat Flour	50 g		(1)	(0.1)		(0.03)		(0.032)				(0.002)	(0.29)		0.108

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Rubidium

28.7
(0.4)
0.5
2.0

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